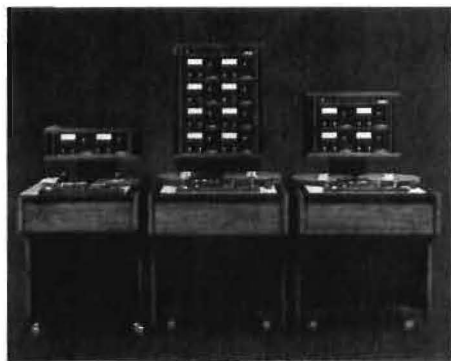


▶ **Scully**  
Recording Instruments  
**280B Series**



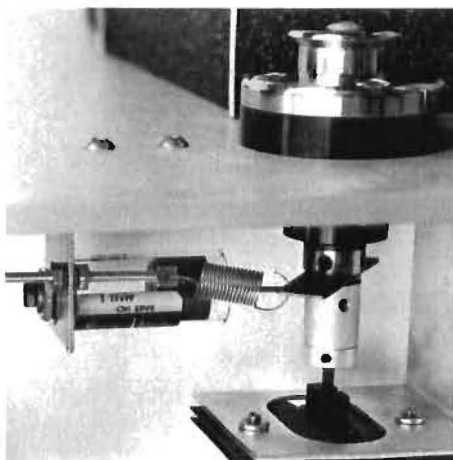
# The Scully 280B Series Features



There are four Scully Recorder or Reproducer Series described in this brochure. Each has a specific application in which it performs most efficiently. Each makes use of Scully features described below, and is supported by Scully and your Scully distributor. We at Scully perform extensive quality control tests on each product before shipping, provide timely delivery, fast response to requests for parts, and trained engineers for service support. It is this support, plus features that contribute to better performance, reduced operating costs, and added operating convenience that have made Scully a leader in the broadcast and studio recording industry...and a good long term investment for you.

## Motion-Direction Sensing

Long a pioneer in motion-sensing systems, Scully added direction-sensing logic in order to apply automatic dynamic braking to its tape handling system, when going directly from a fast mode to play mode. Dynamic braking provides smooth, positive direction changes and good tape packing. In tests, Scully 284B-8 transports using a full 14" (35.56 cm) reel of tape and a 10½" (26.67 cm) take-up reel can shuttle tape, change directions in fast wind modes, and still wind tape in a near perfect pack. Now Scully has added a new optical-control constant tape holdback tension system which further improves tape motion characteristics. Functionally illuminated pushbutton controls visually indicate actual modes, thus on the transport, or accessory remote control, you can see the action of the logic when making mode-to-mode operations.



## Scully Varisync Accessory

This compact new production accessory for all servo-equipped Scully recorders provides a precise means of presetting tape speeds, adjusting speed or pitch as for special effects or expanding/compressing program material to fit a given time period. It also permits locking together, to other recorders—video, or audio—for synchronous recording and playback. Using VARISYNC and an external reference frequency it is possible to lock two Scully servo-equipped audio recorders to the source, record audio and control tracks simultaneously, and play all machines back in perfect sync. Many other special situations can be achieved with this new accessory. The Varisync panel includes a four-digit LED readout indicating actual tape speed in inches per second, accurate to two decimal places. A selector permits LED read-out of the recorder "capstan tachometer" or the tape "control track". Other controls are provided for variable speed control over a range of -25% to +50% of nominal tape speed. Two pushbuttons are provided for user to preset any desired speeds, within the -25% to +50% range, he may desire for repeat usage. When using an external sync input, the Varisync will accept any waveform, sine, square, or pulse, with voltages up to 3.0 volts, peak-to-peak.



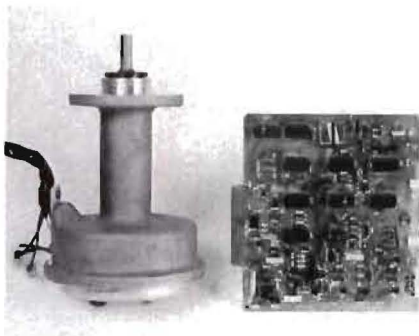


DC Capstan Servo System

Standard on both the 284B and the 284B-8, the Scully Capstan Servo System is available as an option in the 280B Series—or as a kit for existing 280B models. The servo system includes a reliable printed circuit motor which offers outstanding high-torque characteristics. A crystal oscillator provides the basic tape speed reference with an optical tachometer serving as the functional reference. The capstan itself is of larger diameter, affording more contact with the tape, hence reduced tape slippage and more positive tape drive, especially at slower tape speeds.

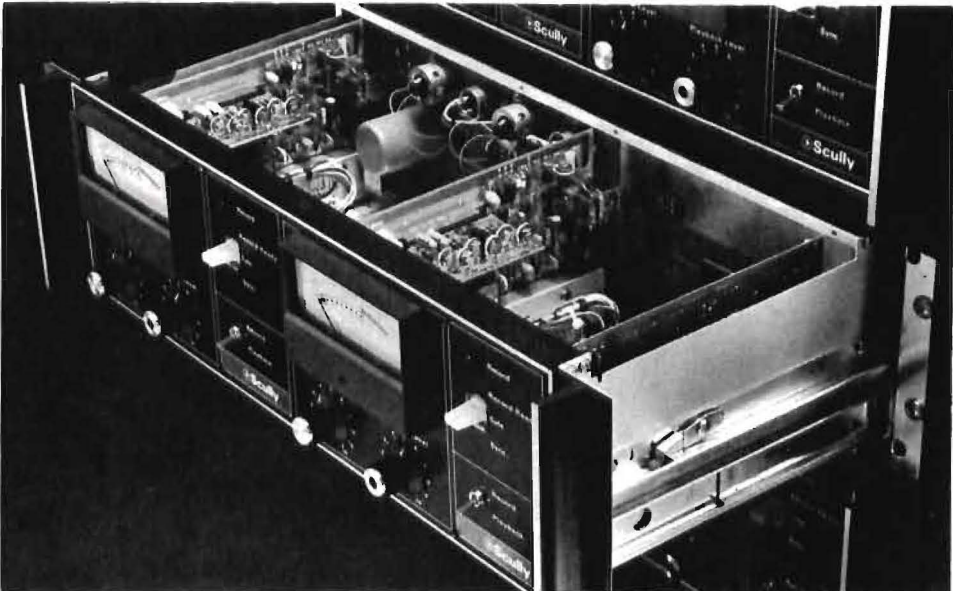
ELECTRONICS

Scully field-proven 280B electronics have been one of the most popular Scully innovations. With exceptional low-noise and extended dynamic range characteristics, you not only enjoy great performance, but easily maintained and serviced units, thanks to the contemporary mother-daughter board architecture. All components are mounted in a convenient slide-out drawer with set-up and adjustment controls readily accessible from the front of the recorder. Extender boards are not required. Front panels include a 4" (10.2cm) illuminated VU meter, Record Input Level Control, Output Level Control with calibrate position, Record/Reproduce Monitor switch, and a single back lighted, tri-color 3-position selector switch to preset RECORD READY, SAFE or SYNC (selective synchronization). An operator can "punch in" or "punch out" of RECORD on a given channel without switching—transients while tape is moving... an aid for making edit inserts. Scully's SYNC response is approximately the same as normal playback response. Equalization is on plug-in boards to match the adjacent speed pairs of the Recorder/Reproducer. At customer's option these are supplied NAB, AES, or IEC (CCIR), as applicable.



Scully Variable Pitch Control

New, as a standard feature of the capstan servo system, is the Scully Variable Pitch Control. Mounted on the transport control panel, the Variable Pitch Control is a concentric two-position switch and continuously variable rotary control. After switching to the vary position, the rotary control will provide a  $\pm 20\%$  variation of normal tape speed.



Electronics Specifications

**Frequency Response** (3M 206 or equivalent tape used as reference.)  
30 in/s (76.2 cm/s)  $\pm 2$  db 50 Hz to 20 kHz.  
15 in/s (38.1 cm/s)  $\pm 2$  db 30 Hz to 18 kHz.  
7.5 in/s (19.05 cm/s)  $\pm 2$  db 30 Hz to 15 kHz.  
3.75 in/s (9.52 cm/s)  $\pm 2$  db 30 Hz to 10 kHz.

**Signal-to-Noise Ratio** (Using 3M 206 tape or equivalent.)  
Peak record level (500 nWb/m) to NAB weighted noise.  
(NAB Equalization, AES at 30 in/s (76.2 cm/s).)

|           | Full track<br>1/4"<br>(6.35mm) | Half track<br>1/4"<br>(6.35mm) | Two track<br>1/4"<br>(6.35mm) | Four track<br>1/4"<br>(6.35mm) | Four track<br>1/2"<br>(12.7mm) | Eight track<br>1"<br>(25.4mm) |
|-----------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|
| 30 in/s   | 72 db                          | 68 db                          | 68 db                         | 65 db                          | 68 db                          | 68 db                         |
| 15 in/s   | 72 db                          | 68 db                          | 68 db                         | 65 db                          | 68 db                          | 68 db                         |
| 7.5 in/s  | 72 db                          | 68 db                          | 68 db                         | 65 db                          | 68 db                          | 68 db                         |
| 3.75 in/s | 68 db                          | 64 db                          | 64 db                         | 61 db                          | 64 db                          | 64 db                         |

**Distortion** 3rd harmonic distortion of 500 Hz signal; at peak record level (500 nWb/m): Less than 3%; at standard operating level (250 nWb/m): Less than 0.6%.

**Inputs** Floating bridging 10 kilohms minimum level 200 mV.

**Output** + 24 dbm into 600 ohm load. (Output impedance 60 ohms.)

**Bias and Erase Frequency** 160 kHz.

**Erase Efficiency** Greater than 75 db at 1 kHz.





# Scully 280B Series

1/4 " (6.35mm) or 1/2 " (12.7mm) tape, up to 11.5" (29.21cm) reels.

All the important features: the functionally-illuminated transport controls, motion-direction sensing, dynamic braking, and now a new constant tape tension control for improved tape handling are incorporated in the 280B Series Recorder/Reproducer.

Scully offers an optional DC capstan-servo drive with variable pitch control. Two advantages are gained, in addition to servo control: the ability to adjust pitch up or down to a desired level; and the more positive tape drive at all speeds afforded by the larger capstan and pinch roller in the servo system.

All this adds up to a standard in broadcast and studio recording where smooth, positive tape handling, low-noise electronics, and control convenience provide truly professional results.

The 280B is available in full or half track mono; 2 or quarter track stereo in 1/4" (6.35mm) models, or 4-track (quad stereo) in 1/4" (6.35mm) or 1/2" (12.7mm) tape width models. Options/Accessories: DC capstan servo system w/pitch control, VARISYNC accessory, console mount, remote transport control.

## Transport Specifications

For electronic specifications, see page 3.

**Flutter and Wow** Weighted peak flutter (ANSI S 4.3-1972: I.E.C. 386-1972) using a prerecorded flutter tape.

| Speed                 | DC Servo | AC Motor |
|-----------------------|----------|----------|
| 30 in/s (76.2 cm/s)   | .04%     | —        |
| 15 in/s (38.1 cm/s)   | .04%     | .08%     |
| 7.5 in/s (19.05 cm/s) | .05%     | .1%      |
| 3.75 in/s (9.52 cm/s) | .1%      | .2%      |

**Speed Accuracy** ±0.1% with DC Servo; ±0.2% with AC motor throughout reel at all speeds using 1.5 mil tape.

**Wind Time** Less than 60 seconds for 2400 foot (731.5m) NAB reel, 1/4" (6.35mm) tape.

**Reel Sizes** To 11.5-in (29.21cm) (CCIR).

**Tape Speed** Equalization switches automatically with speed. 3.75 in/s (9.52 cm/s) and 7.5 in/s (19.05 cm/s) or 7.5 in/s (19.05 cm/s) and 15 in/s (38.1 cm/s) or with DC Servo option, 15 in/s (38.1 cm/s) and 30 in/s (76.2 cm/s).

**Motors** Capstan: Direct Drive Hysteresis Synchronous or optional DC Servo. Reel: Induction Torque Motor (2).

**Brakes** Dynamic plus disc.

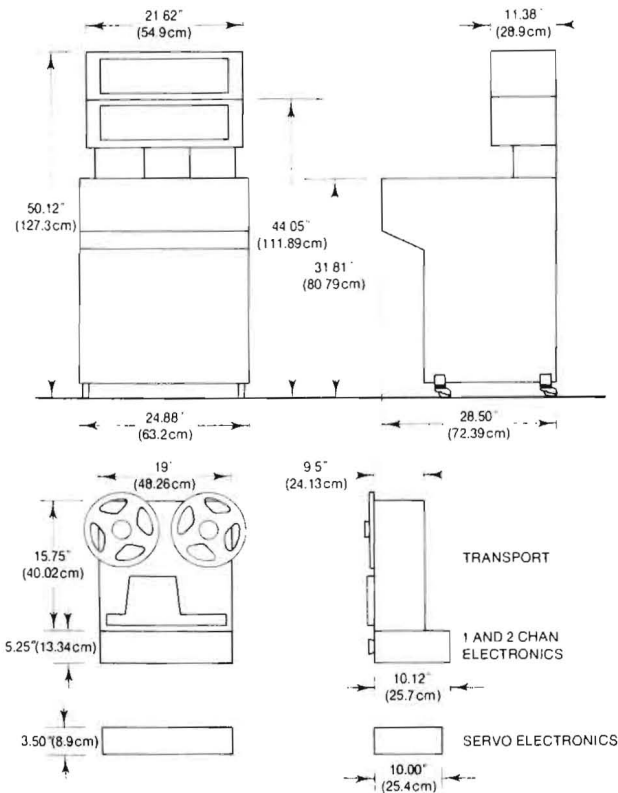
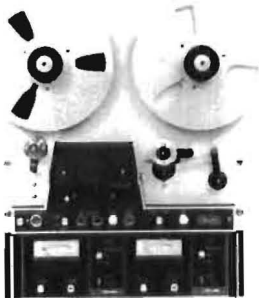
**Remote Control** Fast (FWD-RWD); Start/Stop; Record, and ATL Defeat (Fast FWD or RWD Button).

**Transport Motion Controls** Fast (FWD-RWD); Start; Stop; Record; Edit.

**Power Requirements** 105-125V or 220-240V AC, 50 or 60 Hz. Power consumption at 117V AC-60 Hz: 1 & 2 channel = 223 VA; 4 channel = 328 VA.

**Head and Track Configuration** Full track mono 1/4" (6.35mm) Half track mono 1/4" (6.35mm) Two-track stereo 1/4" (6.35mm) Quarter-track stereo 1/4" (6.35mm) Four-track 1/4" (6.35 mm) Four-track 1/2" (12.7mm)

**Weights (approx.)** Shipping weights, standard carton. Unmounted Recorders: Mono—106 pounds (48 kg) 2 channel—106 pounds (48 kg) 4 channel—127 pounds (57.6 kg) Empty consoles: 1 and 2 channel—103 pounds (46.7 kg) 4 channel—120 pounds (54.4 kg)









# Scully 284B Series

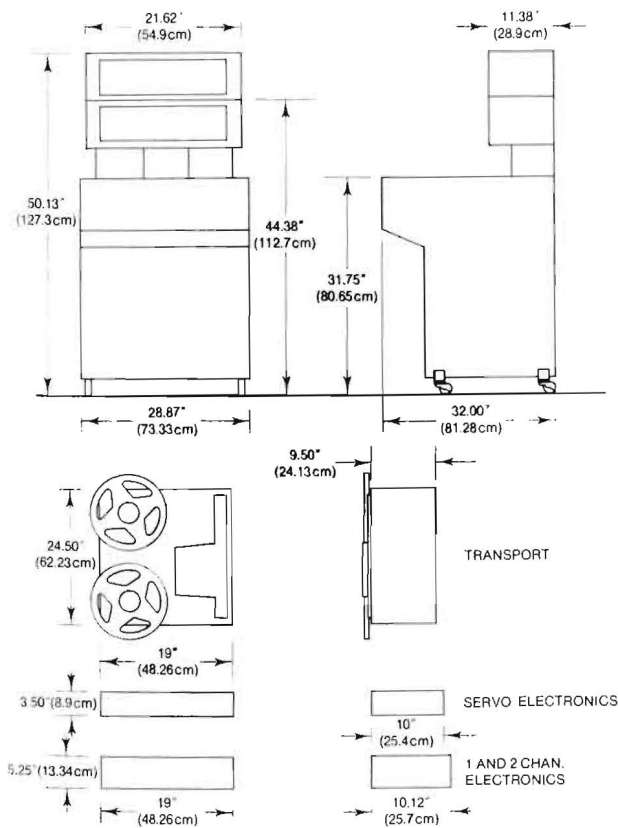
1/4" (6.35mm) or 1/2" (12.7mm) tape, up to 14" (35.56cm) reels.

This more specialized recorder accepts reels to 14" (35.56cm) in diameter for long play or record applications. All models are equipped with the Scully DC capstan servo, providing operation at 30 in/sec (76.2 cm/s) speed. Use of this higher speed and the larger reels offer high quality production/post-production capability with tape of realistic program recording and play length. All 284B models include: motion-direction sensing, dynamic braking, and the new constant tape tension control. Automatic start torque boost is provided in 14" (35.56cm) reel models. Any two specified adjacent speed-pairs are preset when machine is ordered. Other speed pairs can be preset by customer, if required. Speeds include: 3.75, 7.5, 15 and 30 in/sec (9.52, 19.05, 38.1 and 76.2 cm/s). Equalization is automatically switched with speed control. Configurations 1/4" (6.35mm) full or half-track; 1/4" (6.35mm) or 1/2" (12.7mm) four track. Accessories: VARISYNC Accessory, console mount, remote transport control.

## Transport Specifications

For electronic specifications, see page 3.

|                              |  |          |
|------------------------------|--|----------|
| Flutter and Wow              | Weighted peak flutter (ANSI S 4.3-1972: I.E.C. 386-1972) using a prerecorded flutter tape.   |          |
|                              | Speed  | DC Servo |
|                              | 30 in/s (76.2 cm/s)  | .04%     |
|                              | 15 in/s (38.1 cm/s)  | .04%     |
|                              | 7.5 in/s (19.05 cm/s)  | .05%     |
|                              | 3.75 in/s (9.52 cm/s)  | .1%      |
| Speed Accuracy               | ± 0.1% throughout reel at all speeds using 1.5 mil tape.   |          |
| Wind Time                    | Less than 60 seconds for 2400 foot (731.5m) NAB reel, 1/4" (6.35mm) tape.  |          |
| Reel Sizes                   | To 14-inch (35.56cm).  |          |
| Tape Speed                   | Equalization switches automatically with speed. 3.75 in/s (9.52 cm/s) and 7.5 in/s (19.05 cm/s) or 7.5 in/s (19.05 cm) and 15 in/s (38.1 cm/s) or 15 in/s (38.1 cm/s) and 30 in/s (76.2 cm/s).   |          |
| Motors                       | Capstan: DC Servo.<br>Reel: Induction Type Torque Motor (2).   |          |
| Brakes                       | Dynamic plus disc.   |          |
| Remote Control               | Fast (FWD-RWD); Start/Stop; Record, and ATL Defeat (Fast FWD or RWD Button).   |          |
| Transport Motion Controls    | Fast (FWD-RWD); Start; Stop; Record; Edit.   |          |
| Power Requirements           | 105-125V or 220-240V AC, 50 or 60 Hz.<br>Power consumption at 117V AC-60 Hz:<br>1 & 2 channel = 223 VA;<br>4 channel = 328 VA.   |          |
| Head and Track Configuration | Full track mono, 1/4" (6.35mm)<br>Half track mono, 1/4" (6.35mm)<br>Two-track stereo, 1/4" (6.35mm)<br>Quarter-track stereo, 1/4" (6.35mm)<br>Four-track, 1/2" (12.7mm)<br>Four-track, 1/2" (12.7mm)   |          |
| Weights (approx.)            | Shipping weights, standard carton.<br>Unmounted Recorders:<br>Mono—128 pounds (58 kg)<br>2 channel—128 pounds (58 kg)<br>4 channel—154 pounds (69.8 kg)<br>Empty consoles:<br>1 and 2 channel—160 pounds (75.6 kg)<br>4 channel—175 pounds (79.4 kg) |          |









# Scully 284B-8 Series

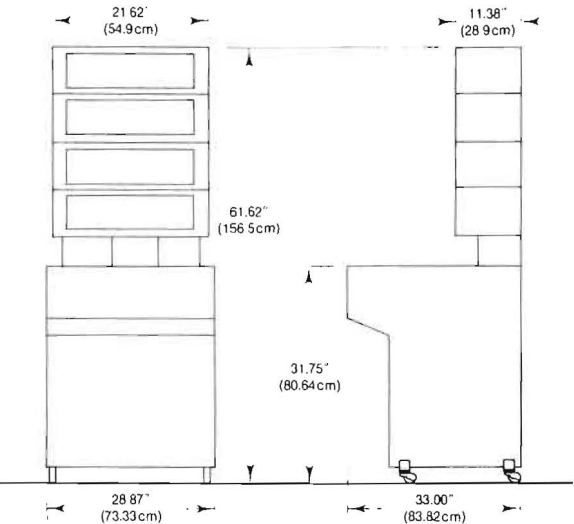
1" (25.4mm) tape, up to 14" (35.56cm) reels.

Scully's Master Recorder/Reproducer is available in an eight channel version using the popular low noise 280B electronics. These 284B-8's use 1" (25.4mm) tape for maximum eight-channel separation and quality; up to 14" (35.56cm) tape reels to provide a realistic supply of tape for program-length recording and post-production. The 284B-8 has motion-direction sensing, dynamic braking, and automatic start-torque boost for smooth, positive tape shuttling; uses Scully's new constant tension system for added tape handling precision in the PLAY/RECORD modes. Scully DC capstan servo drives are standard on all units, as is the variable pitch control. Any two specified adjacent speed-pairs will be present when the machine is ordered. Equalization is automatically switched with speed control. A sturdy console cabinet is included as standard equipment. These features make the Scully 284B-8 the most desirable eight-track system in its price range. Accessories: VARI-SYNC Accessory, remote transport control.

## Transport Specifications

For electronic specifications, see page 3.

|                              |  |          |
|------------------------------|--|----------|
| Flutter and Wow              | Weighted peak flutter (ANSI S 4.3-1972: I.E.C. 386-1972) using a prerecorded flutter tape.   |          |
|                              | Speed  | DC Servo |
|                              | 30 in/s (76.2 cm/s)  | .04%     |
|                              | 15 in/s (38.1 cm/s)  | .04%     |
|                              | 7.5 in/s (19.05 cm/s)  | .05%     |
|                              | 3.75 in/s (9.52 cm/s)  | .1%      |
| Speed Accuracy               | ± 0.1% throughout reel at all speeds using 1.5 mil tape.   |          |
| Reel Sizes                   | To 14 inches (35.56 cm).   |          |
| Tape Speed                   | Equalization switches automatically with speed. 3.75 in/s (9.52 cm/s) and 7.5 in/s (19.05 cm/s) or 7.5 in/s (19.05 cm/s) and 15 in/s (38.1 cm/s) or 15 in/s (38.1 cm/s) and 30 in/s (76.2 cm/s). |          |
| Motors                       | Capstan: DC Servo.<br>Reel: Induction Torque Motor (2).  |          |
| Brakes                       | Dynamic plus disc.   |          |
| Remote Control               | Fast (FWD-RWD); Start/Stop; Record, and ATL Defeat (Fast FWD or RWD Button).   |          |
| Transport Motion Controls    | Fast (FWD-RWD); Start; Stop; Record; Edit.   |          |
| Power Requirements           | 105-125V, 50 or 60 Hz<br>220/240V optional extra) 400 VA.  |          |
| Head and Track Configuration | 8-track (1.00") (25.4 mm).   |          |
| Weights (approx.)            | Shipping weight, standard carton.<br>With console: Total—391 pounds (177.4 kg).  |          |







# Scully 285B Reproducer

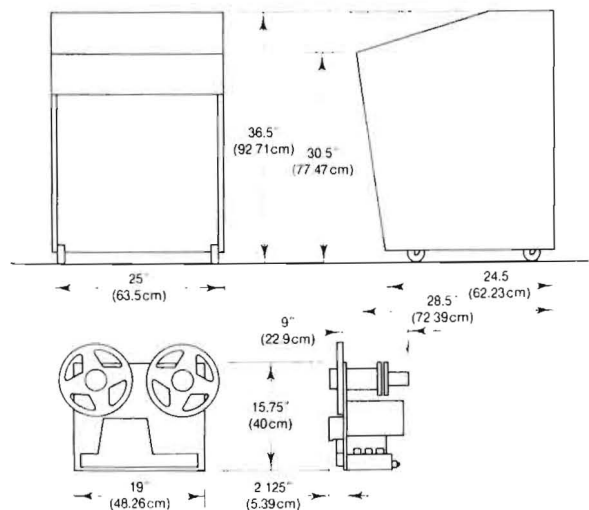
1/4 " (6.35mm) tape, up to 11.5" (29.21cm) reels.

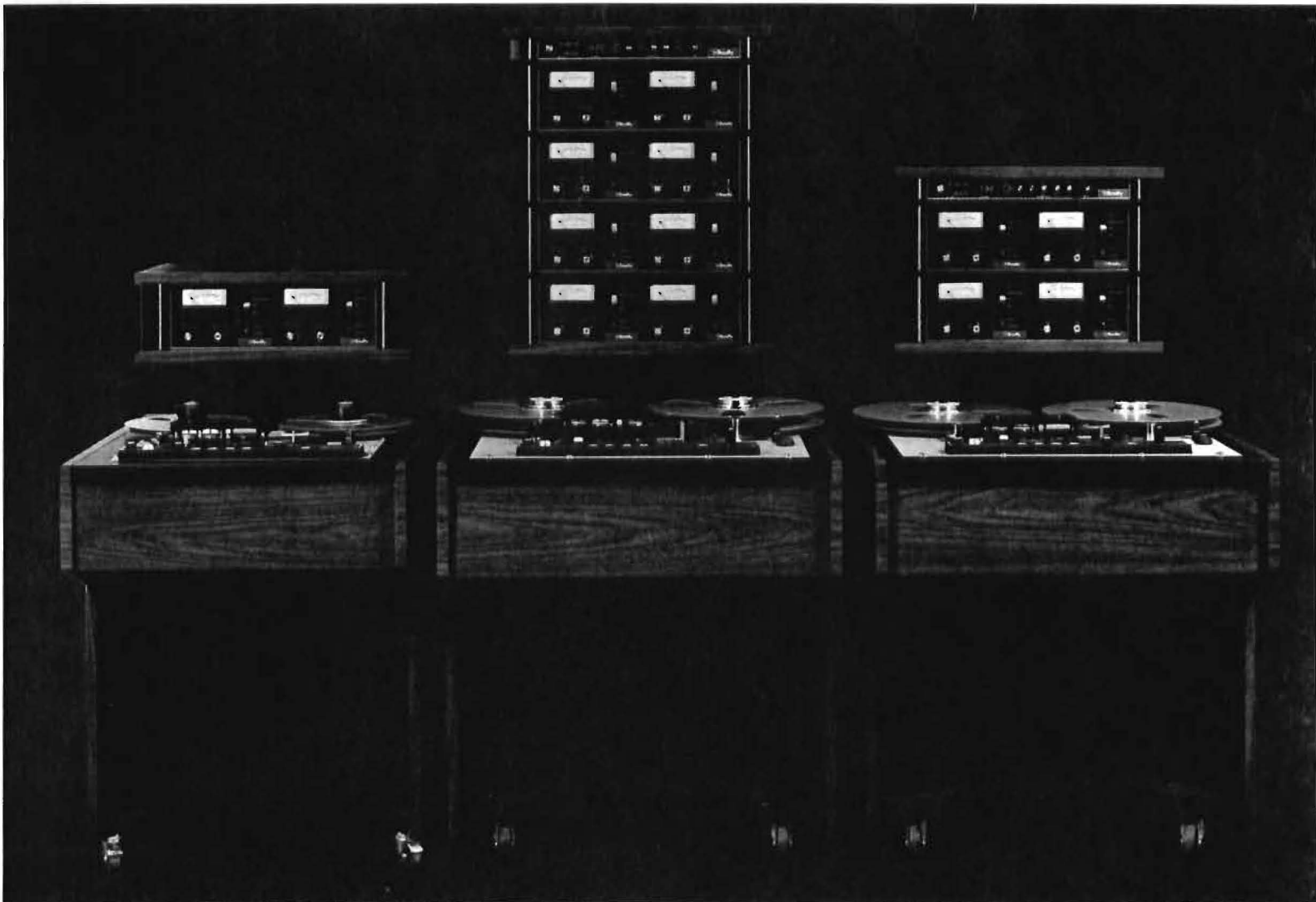
The Scully 285B Reproducer is a professional quality playback or editing system for broadcast or studio applications, as automated tape players, quality control monitors, broadcast control room reproducers, or music library reproducers. The 285B electronics include 600 ohm line output and 8 ohm (3 watt) speaker output for cueing, editing and monitoring. Speaker gain control is on the front panel.

Transport features found in the 280B Series are standard, such as motion-direction sensing logic, functionally-illuminated pushbuttons, edit control, and dynamic braking. Rack-mount units occupy only 15.75" (400mm) of vertical space—electronics are mounted behind the transport deck plate. Electronic set-up adjustments are accessible by removing the head cover. A monitor headset jack is mounted on transport panel for convenience. Configurations include: full-track mono, two or quarter-track stereo. Accessories: slope-front console, remote control.

## Specifications

|                       |   |           |               |       |
|-----------------------|---|-----------|---------------|-------|
| Frequency Response    | (3M 206 or Equivalent)<br>15 in/s (38.1 cm/s) ± 2 dB<br>30 Hz to 18 kHz<br>7.5 in/s (19.05 cm/s) ± 2 dB<br>30 Hz to 15 kHz<br>3.75 in/s (9.52 cm/s) ± 2 dB<br>30 Hz to 10 kHz                           |           |               |       |
| Signal-to-Noise Ratio | (Using bulk erased 3M 206 tape or equivalent)<br>Peak record level (500 nWb/m) to NAB weighted noise.   |           |               |       |
|                       | Full Track  | Two Track | Quarter Track |       |
|                       | 15 in/s<br>(38.1 cm/s)  | 72 dB     | 68 dB         | 65 dB |
|                       | 7.5 in/s<br>(19.05 cm/s)  | 72 dB     | 68 dB         | 65 dB |
|                       | 3.75 in/s<br>(9.52 cm/s)  | 68 dB     | 64 dB         | 61 dB |
| Flutter and Wow       | Weighted peak flutter (ANSI S 4.3-1972: I.E.C. 386-1972) using a prerecorded flutter tape.  |           |               |       |
|                       | Speed   | AC Motor  |               |       |
|                       | 15 in/s (38.1 cm/s)   | .08%      |               |       |
|                       | 7.5 in/s (19.05 cm/s)   | .1%       |               |       |
|                       | 3.75 in/s (9.52 cm/s)   | .2%       |               |       |
| Distortion            | 3rd harmonic distortion of 500 Hz signal; at peak record level (500 nWb/m) less than 3%; at standard operating level (250 nWb/m) less than 0.6%. Speaker out 1% at 3.0 watts into 8 ohm resistive load. |           |               |       |
| Outputs               | Line +17 dBm into 600 ohm load.<br>Speaker 3.0 watts into 8 ohm resistive load.   |           |               |       |
| Equalization          | Automatically switched with transport speed. Specify NAB or IEC (CCIR).   |           |               |       |
| Speed Accuracy        | ±0.2% with AC motor throughout reel at all speeds using 1.5 mil tape.   |           |               |       |
| Reel Sizes            | To 11.5 in. (29.21cm) (CCIR).   |           |               |       |
| Brakes                | Dynamic plus disc.  |           |               |       |
| Power Requirements    | 105-125V or 220-240V AC,<br>50 Hz or 60 Hz.<br>Power consumption at 117V 60 Hz:<br>250 VA.  |           |               |       |
| Weights (approx.)     | Standard carton, unmounted, 90 pounds (40.8 kg) gross.<br>Empty console, 105 pounds (47.6 kg).  |           |               |       |





### Scully 280B Series Support

A network of over 200 distributors throughout the world provide sales and service for Scully 280B Series Recorders and Reproducers. Scully field offices are staffed by factory-trained service engineers, and our Mountain View, California headquarters provides a complete back-up service

facility and parts inventory. Call, Telex, cable or write to us. After 5 p.m. Pacific Time, calls to our Mountain View number (Area Code 415) 968-8389 will automatically be recorded and answered the next working day. Your emergency requirements will be handled rapidly.



Audio/Electronics Division of Dictaphone Corporation  
475 Ellis Street, Mountain View, California 94043  
Telephone: (415) 968-8389, Telex: 345524, Cable DICTAPHON MNTV

#### Regional Offices

285 County Road, Tenafly, New Jersey 07670  
Telephone: (201) 568-4414

1005 8th Avenue South, Nashville, Tennessee 37203  
Telephone: (615) 224-1546

3434 W. Peterson Avenue, Chicago, Illinois 60645  
Telephone: (312) 583-7878

548 Kingsley Drive, Los Angeles, California 90020  
Telephone: (213) 380-7980

Alpert House, Bridgewater Road, Wembley, Middlesex, England. Telephone: 01-903-1477, Telex 923357



## ► Scully/Metrotech

Catalog and Price List for  
Professional Tape  
Recorder / Reproducers,  
Professional Tape Repro-  
ducers, Voice Loggers,  
and Accessories.

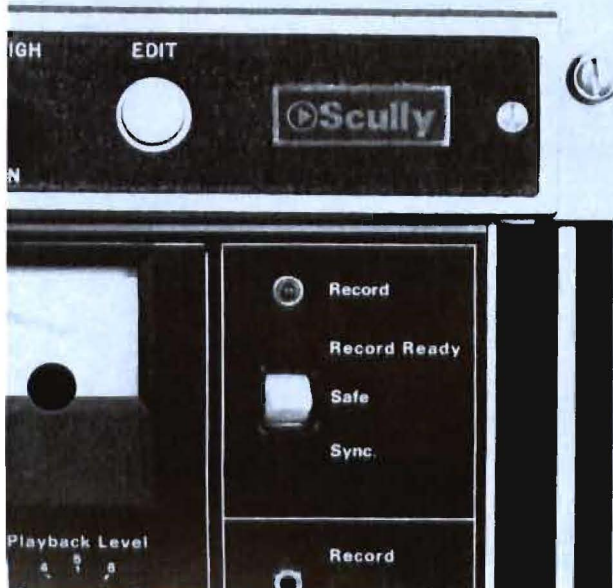
## Authorized Federal Supply Schedule Catalog and Price List

FSC Group 58, Part III, Sect. B  
FSC Distribution Code 00SC-5804  
Federal Supply Class 5835

Contract Number: GS-09S-37107  
Period: August 12, 1976, through June 30, 1977  
Contractor: Scully/Metrotech  
Recording Divisions of Dictaphone Corp.  
475 Ellis Street, Mountain View, CA 94043  
(415) 968-8389 TLX 345524  
Scully/Metrotech is a large business.

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Scully Professional Tape Recorder/Reproducers

280B/284B Series

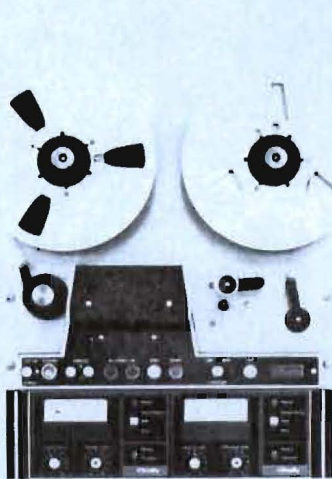
Scully 280B/284B Recorder/Reproducers are designed for professional mastering service or general recording and reproducing assignments. Major features were added mid-1975 to include:

- D.C. servo capstan drive option
- Motion-Direction sensing control logic
- Functionally illuminated transport controls
- Speed to 30 in/s
- 1/4" full track to 1" 8-track units
- 10.5" and 14" reel models
- Common components for interchangeability to reduce field spares requirements

This series of direct drive recorders now offers a choice of A.C. hysteresis capstan motor or printed circuit D.C. servo capstan motor in which a crystal oscillator provides the basic speed reference. All models of two or more channels have "selective synchronization" to permit precise alignment of sequentially recorded segments on separate tracks. New motion direction sensing logic provides dynamic braking and smoother tape handling characteristics. Illuminated pushbutton transport controls show operator at a glance what function is being directed by the control logic (also shows on new remote control accessory). Low noise electronics utilize mother/daughter board architecture in slide

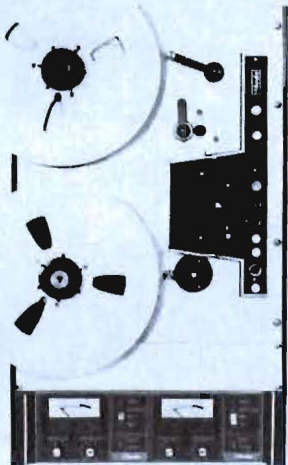
SPECIFICATIONS

|  |   |  |  |                       |  |
|--|---|--|--|-----------------------|--|
| <b>FREQUENCY RESPONSE:</b><br>3M-206 or equivalent<br>tape used as reference   | <b>30 in/s</b><br>(Servo Drive Only)<br>±2dB, 50 Hz to 20kHz  | <b>15 in/s</b><br>±2dB, 30 Hz to 18kHz | <b>7.5 in/s</b><br>±2dB, 30 Hz to 15 kHz |                       | <b>3.75 in/s</b><br>±2dB, 30 Hz to 10kHz |
| <b>SIGNAL TO NOISE RATIO:</b><br>3M-206 or equivalent<br>tape used as reference  | Full Track<br>.25" Tape   | Half or Two Track<br>.25" Tape         | 4 Track<br>.25" Tape                     | 4 Track<br>.50" Tape* | 8 Track<br>100" Tape                     |
| 30 in/s  | 72dB  | 68dB                                   | 65dB                                     | 68dB                  | 72dB                                     |
| 15 in/s  | 72dB  | 68dB                                   | 65dB                                     | 68dB                  | 72dB                                     |
| 7.5 in/s   | 72dB  | 68dB                                   | 65dB                                     | 68dB                  | 72dB                                     |
| 3.75 in/s  | 68dB  | 64dB                                   | 61dB                                     | 64dB                  | 64dB                                     |
| *7.5 to 15 in/s only with AC motor.  |   |  |  |                       |  |
| <b>FLUTTER AND WOW:</b><br>Weighted peak flutter<br>(ANSI S4.3 1972: I.E.C. 386-1972)<br>using a prerecorded flutter tape. | <b>30 in/s</b>  | <b>15 in/s</b>                         | <b>7.5 in/s</b>                          |                       | <b>3.75 in/s</b>                         |
| With A.C. Drive Motor  | —   | .08%                                   | .1%                                      |                       | .2%                                      |
| With D.C. Servo Motor  | .04%  | .04%                                   | .06%                                     |                       | .1%                                      |
|  |   |  | ( .05% with 1" tape)                     |                       |  |
| <b>SPEED ACCURACY:</b>   | ±.2% with A.C. motor; ± .1% with D.C. servo motor. Both throughout reel at all speeds using 1.5 mil tape.   |  |  |                       |  |
| <b>POWER REQUIREMENTS:</b>   | 105-125V, 60 Hz power consumption at 117 VAC is 223 VA (1 and 2 channel units); 328 VA (4 channel units); 400 VA (8 channel units). A.C. motor drive units 60 Hz standard (50 Hz, 220V option available). D.C. servo drive units operate on 50 or 60 Hz without modification. |  |  |                       |  |



280B  
Special Item 136-9  
Reels to 11.5"

280B-2/SP-14  
Special Item 136-9  
Reels to 14"





## Scully Professional Recorder/Reproducers

out drawers for simplified set-up and maintenance. Inputs are floating, bridging 10 Kiloohms, minimum level 200 mV. Outputs are +24 dBm into 600 ohm load. Equalization for selected speed pairs is on plug-in boards.

The 280B series handle reels to 11.5" and tape to 1/2" width. The 280B/SP-14 handle reels to 14" but are not offered with D.C. servo drive. The 284B series accept reels to 14" and tapes to 1/2" width.

All systems except the console mounted 284B-8 are supplied unmounted for standard 19" racks. Console mounts are available as accessories.

### 284B-8

Special Item 136-9  
Reels to 14"



For eight tracks, the 284B-8 is offered complete with D.C. servo drive, console, one-inch tape width, reels to 14" diameter (which is especially useful when doing 30 in/s recording).

Pictured left to right are console mounted versions of the 280B-FT (Full track mono), the 280B-4 (4 track stereo), and the 280B-2 (2 track stereo) recorder reproducers.





Scully Professional Tape Reproducers

270 Series

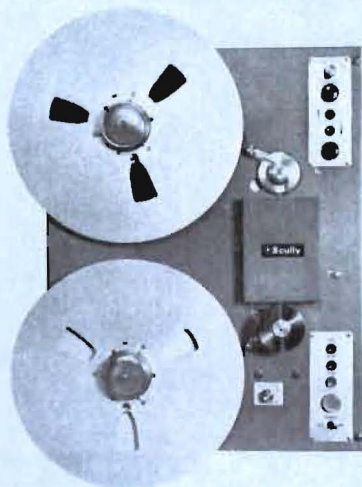
Designed for use in long play or automated broadcasting, the 270 series handles reels up to 14" in diameter. Features include single or bi-directional operation, disc-brakes, transistorized plug-in amplifiers, one-piece frame construction, automatic start-torque tension control and automatic reversing capability. The 270 uses 0.25" tape and is available in monaural half track, bi-directional; stereo two-track, one direction; or quarter track stereo, bi-directional. Tape speeds are 3.75 and 7.5 in/s, or 7.5 and 15 in/s. Available only for mounting in standard 19" rack. Output is +4 dBm into 600 ohm (may be strapped for up to 18 dBm).

285B Series

Scully 285B series Reproducer units were developed to provide professionals with a simple, reliable play-back and tape editing machine. Solid-state reproduce-only electronics include a 3-watt monitor speaker/amplifier. Scully plug-in head assemblies permit using one machine with both mono full track or stereo 2-track tapes. To provide editing convenience, the 285B tape lifters can be defeated in the fast wind modes. Edit control switch allows operator to spill tape in PLAY mode. Playback calibration control assures maintenance of constant playback level to 600 ohm line.

SPECIFICATIONS

| FREQUENCY RESPONSE:  |                  | 270 Series              |                      | 285B Series           |                      |
|--|------------------|-------------------------|----------------------|-----------------------|----------------------|
| 3M-206 or equivalent tape used as reference  |                  |                         |                      |                       |                      |
| 15 in/s  |                  | ±2dB, 50 Hz to 15 kHz   |                      | ±2dB, 30 Hz to 18 kHz |                      |
| 7.5 in/s   |                  | +2-3dB, 50 Hz to 15 kHz |                      | ±2dB, 30 Hz to 15 kHz |                      |
| 3.75 in/s  |                  | +2-3dB, 30 Hz to 10 kHz |                      | ±2dB, 30 Hz to 10 kHz |                      |
| (Note: Quarter track stereo ±4dB, 50 to 100Hz; above 100 Hz response is same as other configurations.) |                  |                         |                      |                       |                      |
| SIGNAL-TO-NOISE RATIO*   | Full Track 0.25" |                         | Stereo 2 Track 0.25" |                       | Stereo ¼ Track 0.25" |
|  | (270)            | (285B)                  | (270)                | (285B)                | (285B)               |
|  | 15 in/s          | 65dB                    | 72dB                 | 60dB                  | 68dB                 |
|  | 7.5 in/s         | 65dB                    | 72dB                 | 60dB                  | 68dB                 |
|  | 3.75 in/s        | —                       | 68dB                 | —                     | 64dB                 |
| *Unweighted (dB min. 30 Hz to 18 kHz Band)   |                  |                         |                      |                       |                      |
| FLUTTER AND WOW:   |                  | 15 in/s                 |                      | 7.5 in/s              |                      |
| (Both Series 270 and 275)  |                  | 0.08%                   |                      | 0.1%                  |                      |
|  |                  |                         |                      | 3.75 in/s             |                      |
|  |                  |                         |                      | 0.2%                  |                      |
| TIMING ACCURACY: 270 Series: 99.7% — 30 min. tape: 285B Series: 99.9% ± 1.5 sec. 30 min. tape.         |                  |                         |                      |                       |                      |
| POWER REQUIREMENTS: 117 VAC, 60 Hz, 275 VA. (50 Hz, 230V options available.)                           |                  |                         |                      |                       |                      |



270 Reproducer  
Special Item 136-26  
Single or  
Bi-directional Operation



285B-2 Reproducer  
Special Item 136-26



Metrotech Tape Reproducers

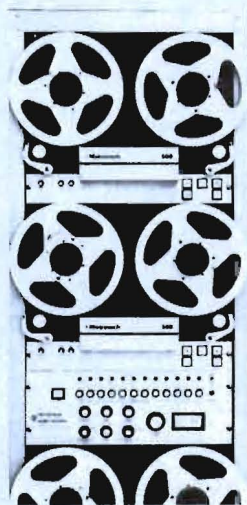
500P/3000 Series

Metrotech 500P tape reproducers are designed for broadcast playback and for use in automated playback systems of customer design or as part of the 3000 automated reproduction system offered herein. The basic 500P reproducers are single speed transports available for single or bi-directional operation with reel size to 10.5". They require only 15-3/4" height in a standard 19" rack. Electronics are self-contained. Output is 600 ohm unbalanced. Optional transformer is listed for balanced output.

The 3000 automated reproducer for broadcast or announcement programming uses 500P bi-directional reproducers (up to four) and a 12-step intersperser control which sequences on "silence" or 25 Hz "tone." Should any program source fail, the unit will automatically search for, and switch to, another operating source. The unit is expandable to four program sources, or a microphone, phonograph or tape cartridge. Reproducer can be added at any time. The 3000 was designed for unattended operation over long time periods.

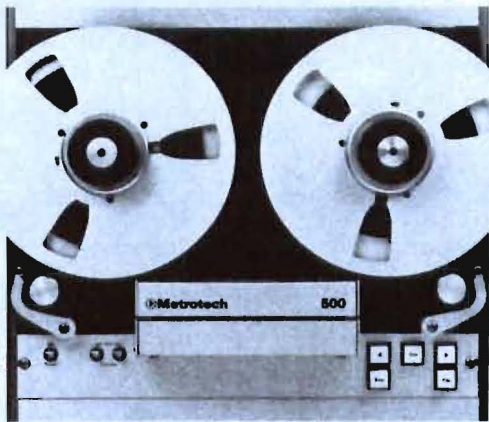
SPECIFICATIONS

| FREQUENCY RESPONSE:  | 7.5 in/s<br>±2dB, 50 Hz to 15 kHz | 3.75 in/s<br>+2-3dB, 30 Hz to 10 kHz |
|--|-----------------------------------|--------------------------------------|
| SIGNAL-TO-NOISE RATIO:<br>3M-206 or equivalent tape<br>used as reference                   |                                   |                                      |
| Full Track (500P only)   | 65dB                              | —                                    |
| Half Track — Bi-directional  | 60dB                              | 55dB                                 |
| Quarter Track — Bi-directional   | 55dB                              | 51dB                                 |
| FLUTTER AND WOW:<br>Weighted peak flutter of system<br>(Reference ANSI 54.3-1972)          | 0.12%                             | 0.2%                                 |
| TIMING ACCURACY: Within .2%, all speeds.   |                                   |                                      |
| POWER REQUIREMENTS: 117 VAC, 60 Hz, 100 VA per transport. (50 Hz, 230V options available.) |                                   |                                      |



3000 Series  
Automated Bi-directional  
Reproducer System  
Special Item 136-26

500P  
Special Item 136-26  
Single or  
Bi-directional Operation





Metrotech Tape Recorder/Reproducers

500 Series

The 500R Recorder/Reproducer is a professional quality general utility machine available in a wide choice of configurations. 500R's are available for single or bi-directional operation with a choice of any two adjacent speeds from the 15, 7.5, 3.75 or 1.875 in/s range. Head formats include full-track mono, half or quarter track mono, two-track or quarter-track stereo. In the 500R motion sensing circuitry interlocks operating controls to prevent

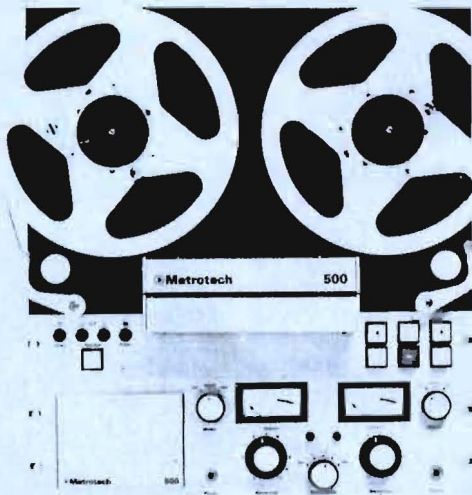
accidental tape spill. Straight line threading, automatic tape lifters, and three separate motors contribute to ease of operation, convenience and reliability. 500R's are offered in standard rack-mount configuration with an optional floor console available. Inputs are unbalance bridging convertible to balance bridge, line matching, or microphone by plug-in accessories. Output is 600 ohm.

SPECIFICATIONS

| FREQUENCY RESPONSE:<br>3M-206 or equivalent tape<br>used as reference  | 15 in/s  | 7.5 in/s              | 3.75 in/s               | 1.875 in/s             |
|--|--|-----------------------|-------------------------|------------------------|
|  | +2dB, 30 Hz to 15 kHz  | ±2dB, 50 Hz to 15 kHz | +2-3dB, 30 Hz to 10 kHz | ±3dB, 50 Hz to 7.5 kHz |
| SIGNAL-TO-NOISE RATIO:<br>3M-206 or equivalent tape<br>used as reference.  | Peak record level to NAB weighted noise using NAB equalization (500n Wb/m) |                       |                         |                        |
| Full Track   | 65dB   | 65dB                  | —                       | —                      |
| Half Track   | 60dB   | 60dB                  | 55dB                    | 50dB                   |
| Quarter Track  | 55dB   | 55dB                  | 51dB                    | 50dB                   |
| FLUTTER AND WOW:<br>Weighted peak flutter of system<br>recording and reproducing.<br>(Reference: ANSI 54.3-1972) | 0.09%  | 0.12%                 | 0.2%                    | 0.3%                   |

TIMING ACCURACY : within .2%, all speeds.

POWER REQUIREMENTS: 117 VAC, 60 Hz, 130 VA. (50 Hz, 230V options available.)



500R  
Special Item 136-9



▶ **Dictaphone Voice Logger, Recorder/Reproducer**  
**Scully/Metrotech**

**400L Series**

The 400L series are for communications voice logging over extended periods of time. Three basic transports offer the following channels and unattended recording times (1 and 2 channel units are auto reversing and sequencing):

| Channels | Auto Pass | Play Time in Hours |            |            |
|----------|-----------|--------------------|------------|------------|
|          |           | 5/16 in/s          | 15/32 in/s | 15/16 in/s |
| 1        | 4         | 153.6              | 102.4      | 51.2       |
| 2        | 2         | 76.8               | 51.2       | 25.6       |
| 4        | 1         | 38.4               | 25.6       | 12.8       |

**Note:** Transposing reels doubles time on all models. Dual systems with time code doubles unattended recording time or provides fail-safe auto transfer to standby transport.

All systems have monitoring controls and confidence lights for a quick check of the complete system. Transports tilt forward and electronics are on pull-out drawers for easy maintenance from front. All units have built-in monitor speaker/amps. Time code generator/readers code and read time of day by digital code mixed with audio input, thereby eliminating need for a dedicated time channel. In play mode actual time of original recording is displayed. The 4400BX time unit employs a crystal controlled clock fed by a battery/charger system to operate during short power failures.

**SPECIFICATIONS**

|  |   |   |   |
|--|---|---|---|
| <b>FREQUENCY RESPONSE:</b><br>3M-296 tape or equivalent<br>used as reference       | <b>5/16 in/s</b><br>Long Play Speed<br>±3dB, 300 to 2.0 kHz   | <b>15/32 in/s</b><br>Standard Speed<br>±3dB, 300 to 3.0 kHz | <b>15/16 in/s</b><br>(Optional Extra) Speed<br>±3dB, 300 to 6.0 kHz |
| <b>SIGNAL-TO-NOISE RATIO<br/>AND CROSSTALK:</b><br>using 3M-296 tape or equivalent | 40dB minimum below peak record level (140n Wb/M)  |   |   |
| <b>FLUTTER AND WOW:</b>  | Less than 1.0% peak weighted at all speeds  |   |   |
| <b>AUTOMATIC REVERSING:</b>  | Conductive tape activated on all multipass models.  |   |   |
| <b>POWER REQUIREMENTS:</b>   | 150-125V, 60 Hz. Power consumption 150 watts per transport; 25 watts for time code unit.<br>(50 Hz and 220/240V options available.) |   |   |
| <b>ACCESSORIES:</b>  | (Factory installed.) Include automatic level control, voice operated relays (VOX), etc.<br>See Page 11 for listing.                 |   |   |



400L with  
4400 Time Code Unit  
Special Item 136-10



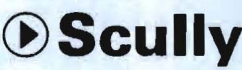
4400 BX Time  
Code Generator Recorder  
For 400L Systems Only  
Special Item 136-22



400L-2  
Dual Logger System  
In Custom Cabinet



Price Schedule



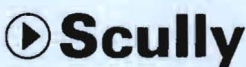
Effective August 12, 1976  
GSA 15% discount, any quantity, 280B, 284B, 285B Series, 20% discount on 270 Series.

| Special Item 136-9 Recorder/Reproducers   |   |   |               |                            |             |                            |             |
|---|---|---|---------------|----------------------------|-------------|----------------------------|-------------|
| Specify Model No., Speeds, Equalization, AC or Servo Drive and Line Frequency when ordering.  |   |   |               |                            |             |                            |             |
| Recorder/Reproducers (with Motion Direction Sensing)  |   |   |               |                            |             |                            |             |
| SERIES  | MODEL   | DESCRIPTION   | TAPE<br>WIDTH | A.C. DRIVE MOTOR           |             | SERVO DRIVE MOTOR          |             |
|   |   |   |               | User Price<br>(see Note A) | Govt. Price | User Price<br>(see Note B) | Govt. Price |
| <b>280B</b><br>10.5" Reels for<br>Rack Mounting   | 280B-FT.  | Monophonic, full track  | .25"          | \$ 2,825.00                | \$ 2,401.25 | \$ 3,220.00                | \$ 2,737.00 |
|   | 280B-1  | Monophonic, half track  | .25"          | 2,925.00                   | 2,486.25    | 3,320.00                   | 2,822.00    |
|   | 280B-2  | Stereo 2 track, 2 channel                                     | .25"          | 3,595.00                   | 3,055.75    | 3,990.00                   | 3,391.50    |
|   | 280B-4  | Quad 4 track, 4 channel                                       | .50"          | 5,225.00                   | 4,441.25    | 5,620.00                   | 4,777.00    |
|   | 280B-24   | Stereo qtr. track, 2 channel                                  | .25"          | 3,595.00                   | 3,055.75    | 3,990.00                   | 3,391.00    |
|   | 280B-44   | Quad 4 track, 4 channel                                       | .25"          | 5,225.00                   | 4,441.25    | 5,620.00                   | 4,777.00    |
| <b>280B</b><br>(SP-14)<br>14" Reels for<br>Rack Mounting  | 280B-1/SP-14  | Monophonic, half track  | .25"          | 3,045.00                   | 2,588.25    | N/A                        | N/A         |
|   | 280B-2/SP-14  | Stereo 2 track, 2 channel                                     | .25"          | 3,695.00                   | 3,140.75    | N/A                        | N/A         |
|   | 280B-24/SP-14   | Stereo qtr. track, 2 channel                                  | .25"          | 3,695.00                   | 3,140.75    | N/A                        | N/A         |
|   | Above available 3.75-7.5 or<br>7.5-15 ips (specify when ordering) |   |               |                            |             |                            |             |
| <b>284B</b><br>14" Reels for<br>Rack Mounting   | 284B-FT   | Monophonic, full track  | .25"          | 3,525.00                   | 2,996.25    | 3,920.00                   | 3,332.00    |
|   | 284B-1  | Monophonic, half track  | .25"          | 3,625.00                   | 3,081.25    | 4,020.00                   | 3,417.00    |
|   | 284B-2  | Stereo 2 track, 2 channel                                     | .25"          | 4,295.00                   | 3,650.75    | 4,690.00                   | 3,986.50    |
|   | 284B-4  | Quad 4 track, 4 channel                                       | .50"          | 5,925.00                   | 5,036.25    | 6,320.00                   | 5,372.00    |
|   | 284B-24   | Stereo qtr. track, 2 channel                                  | .25"          | 4,295.00                   | 3,650.75    | 4,690.00                   | 3,986.50    |
|   | 284B-44   | Quad 4 track, 4 channel                                       | .25"          | 5,925.00                   | 5,036.25    | 6,320.00                   | 5,372.00    |
| <b>284B-8</b><br>Console Mounted<br>14" Reels   | 284B-8  | 8 track, 8 channel<br>Complete with D.C.<br>servo and console | 1.00" *       | N/A                        | N/A         | 9,500.00                   | 8,075.00    |
| <b>NOTE A:</b> Price includes A.C. hysteresis capstan motor 3.75-7.5 or 7.5-15 ips 50 or 60 Hz 117V (3.75 ips not available in .50" A.C. models). |   |   |               |                            |             |                            |             |
| <b>NOTE B:</b> Price includes D.C. servo capstan motor 3.75-7.5 or 7.5-15, or 15-30 in/sec. 50 or 60 Hz 117V.                                     |   |   |               |                            |             |                            |             |
|   |   |   |               |                            |             |                            |             |
|   |   |   |               |                            |             |                            |             |
|   |   |   |               |                            |             |                            |             |
| Special Item 136-26, Reproducers  |   |   |               |                            |             |                            |             |
| Specify Model No., Speeds, Equalization and Line Frequency when ordering.   |   |   |               |                            |             |                            |             |
| Reproducers   |   |   |               |                            |             |                            |             |
| <b>270</b><br>14" Reels for<br>Rack Mounting  | 270   | Monophonic, full track  | .25"          | 2,345.00                   | 1,876.00    |                            |             |
|   | 270-1   | Monophonic, half track<br>bi-directional                      | .25"          | 2,345.00                   | 1,876.00    |                            |             |
|   | 270-2   | Stereo 2 track, 2 channel                                     | .25"          | 2,450.00                   | 1,960.00    |                            |             |
|   | 270-44  | Stereo qtr. track, 2 channel,<br>bi-directional               | .25"          | 2,895.00                   | 2,316.00    |                            |             |
|   |   |   |               |                            |             |                            |             |
| <b>285B</b><br>10.5" Reels for<br>Rack Mounting   | 285B-FT   | Mono full track   | .25"          | 2,395.00                   | 2,035.75    |                            |             |
|   | 285B-2  | Stereo 2 track, 2 channel                                     | .25"          | 2,775.00                   | 2,358.75    |                            |             |
|   | 285B-24   | Stereo qtr. track, 2 channel                                  | .25"          | 2,775.00                   | 2,358.75    |                            |             |

Good  
price  
until  
10-30-77



# Price Schedule



Effective August 12, 1976

GSA 15% discount any quantity 280B, 284B, 285B Series, 20% discount on 270 Series

## Special Item 136-22, Accessories

| Series  | Description  | Part No.                          | Professional<br>User Price | GSA      |
|---|--|-----------------------------------|----------------------------|----------|
| <b>INTERNATIONAL OPTIONS:</b>   |  |                                   |                            |          |
|   | —50 Hz operation . . . . . specify when required.  |                                   |                            |          |
|   | —Any of above Recorders or Reproducers,<br>modified for 220/240 V with unregulated<br>autotransformer, Add . . . . . |                                   | \$ 87.50                   | \$ 74.37 |
| <b>CONSOLE MOUNTS</b>   |  |                                   |                            |          |
| 285B  | —Mono or Stereo . . . . .  | .201931-01 . . . . .              | 320.00                     | 272.00   |
| 280B  | —Mono or Stereo (280B-FT, -1, -2, -24) . . . . .   | .200600-03 . . . . .              | 350.00                     | 297.50   |
| 280B-4  | —Quad 4 channel (280B-4, 280B-44) . . . . .  | .200600-04 . . . . .              | 415.00                     | 352.75   |
| 284B/280B-SP-14   | —Mono or Stereo for 14" Reel Recorders . . . . .   | .201665-01 . . . . .              | 515.00                     | 437.75   |
| 284B  | —Four Channel 14" Reel Recorders . . . . .   | .201665-02 . . . . .              | 535.00                     | 454.75   |
|   | (Refer to local sales offices for prices on consoles for discontinued models)  |                                   |                            |          |
| <b>REMOTE CONTROLS</b>  |  |                                   |                            |          |
| 280B Series   | —Standard Remote Control in Box . . . . .  | .200925-01 . . . . .              | 190.00                     | 161.50   |
|   | —Standard Remote Control — Rack Mount . . . . .  | .200925-02 . . . . .              | 165.00                     | 140.25   |
| 280B/284B   | —Deluxe Remote with lit Buttons, in box . . . . .  | .200925-03 (see Note C) . . . . . | 190.00                     | 161.50   |
|   | —Deluxe Remote with lit Buttons, Panel Mount . . . . .   | .200925-04 (see Note C) . . . . . | 165.00                     | 140.25   |
| <b>EQUALIZERS</b> (for field conversion, plug-in type, one per channel) |  |                                   |                            |          |
| 280B and  | —NAB 3.75–7.5 ips Rec/Rep . . . . .  | .200605-01 . . . . .              | 38.00                      | 32.30    |
| 284B Series   | —NAB 7.5–15 ips Rec/Rep . . . . .  | .200605-02 . . . . .              | 38.00                      | 32.30    |
|   | —IEC 7.5–15 ips Rec/Rep . . . . .  | .200605-03 . . . . .              | 38.00                      | 32.30    |
|   | —NAB 15 AES 30 ips Rec/Rep . . . . .   | .200605-04 . . . . .              | 38.00                      | 32.30    |
|   | —IEC 15 AES 30 ips Rec/Rep . . . . .   | .200605-05 . . . . .              | 38.00                      | 32.30    |
| <b>MAINTENANCE MANUALS</b> (one supplied with each Recorder/Reproducer) |  |                                   |                            |          |
| 280B/284B/285B  | —Recorder/Reproducer 1-4 Channel . . . . .   | .200612-01 . . . . .              | 18.50                      | 15.72    |
| 284B-8  | —Recorder/Reproducer 8 Channel . . . . .   | .201666-01 . . . . .              | 18.50                      | 15.72    |
| 280 and 275 Series  | —1 to 4 Channel . . . . .  | .00502000 . . . . .               | 18.50                      | 15.72    |
| 270 Series  | —Reproducer . . . . .  | .000501000-01 . . . . .           | 18.50                      | 14.80    |

NOTE C: Remote controls with illuminated buttons are only for recorders with "L" or "S" prefix in serial numbers.

## 280B Servo Conversion Kits

|  |  |  |        |        |
|--|--|--|--------|--------|
| <b>D.C. SERVO CAPSTAN MOTOR KITS</b> — consisting of motor, electronics, crystal, all necessary hardware and instructions. |  |  |        |        |
| Kit No. 201466-01 for .25" tape width transports, console mounted . . . . .  |  |  | 995.00 | 845.75 |
| Kit No. 201446-02 for .50" tape width transports, console mounted . . . . .  |  |  | 995.00 | 845.75 |
| Kit No. 201466-03 for .25" tape width transports, for rack mounting. . . . .   |  |  | 995.00 | 845.75 |
| Kit No. 201466-04 for .50" tape width transports, for rack mounting. . . . .   |  |  | 995.00 | 845.75 |



Effective August 12, 1976  
GSA 15% discount, any quantity

**Special Items 136-9, 136-26**

(Important: Specify desired speed and 50 or 60 Hz when ordering.)

| Series  | Model No. | Tracks                              | Transport             | Professional<br>User Price | GSA               |
|---|-----------|-------------------------------------|-----------------------|----------------------------|-------------------|
| <b>500R</b><br>Dual Speed<br>Switchable Special<br>Item 136-9 | 531R      | Monaural Full Track                 | One Direction . . . . | \$1,950.00                 | <b>\$1,657.50</b> |
|   | 534R      | Monaural Half Track                 | Auto Reverse . . . .  | 2,195.00                   | <b>1,865.75</b>   |
|   | 543R      | Stereo Half Track                   | One Direction . . . . | 2,295.00                   | <b>1,950.75</b>   |
|   | 546R      | Stereo Quarter Track<br>(2 Channel) | Auto Reverse . . . .  | 2,495.00                   | <b>2,120.75</b>   |

Specify 7.5-15 in/s, 3.75-7.5 in/s, 1.875-3.75 in/s NAB or IEC

|  |      |                      |                       |          |                 |
|--|------|----------------------|-----------------------|----------|-----------------|
| <b>500P</b><br>Single Speed<br>Special Item 136-26 | 514P | Monaural Half Track  | Auto Reverse . . . .  | 1,575.00 | <b>1,338.75</b> |
|  | 523P | Stereo Half Track    | One Direction . . . . | 1,475.00 | <b>1,253.75</b> |
|  | 526P | Stereo Quarter Track | Auto Reverse . . . .  | 1,650.00 | <b>1,402.50</b> |

Specify 1.875, 3.75, or 7.5 in/s single speed (Belt Changeable)

**Automated Reproduction Systems**

**3000**

Monophonic, complete with up to four transports. Intersperser Control Unit, with tone and silence sensing, in deluxe cabinet:

|  |           |                          |                    |          |                 |
|--|-----------|--------------------------|--------------------|----------|-----------------|
| Single Speed<br>10.5" Reels<br>Special Item 136-26 | SCA-3142P | Half Track, 2 Transports | Reversing. . . . . | 4,150.00 | <b>3,527.50</b> |
|  | SCA-3143P | Half Track, 3 Transports | Reversing. . . . . | 5,725.00 | <b>4,866.25</b> |

Reproducers for Series 3000 Systems are bi-directional and operate at 7-1/2 or 3-3/4 (specify). These systems are available without deluxe cabinet, for mounting in customer's rack facilities. Deduct: \$63.75 (GSA).

**Accessories  
Special Item 136-22**

| Type          | Description                              | Option for:          | Professional<br>User Price | GSA             |
|---------------|--|----------------------|----------------------------|-----------------|
| BBT-500       | Balanced Bridging Transformer            | Recorder . . . . .   | \$ 19.00†                  | <b>\$ 16.15</b> |
| BMT-500       | Balanced Matching Transformer            | Recorder . . . . .   | 19.00†                     | <b>16.15</b>    |
| BOT-500       | Balanced Output Transformer              | Reproducer . . . . . | 11.00†**                   | <b>9.35</b>     |
| MPR-500       | Microphone Preamplifier                  | Recorder . . . . .   | 80.00†                     | <b>68.00</b>    |
| RCU-500PL-1   | Remote Control Unit (1 pass)             | Reproducer . . . . . | 125.00                     | <b>106.25</b>   |
| RCU-500PL-2   | Remote Control Unit (2 pass)             | Reproducer . . . . . | 135.00                     | <b>114.75</b>   |
| RCU-500PL-4   | Remote Control Unit (4 pass)             | Reproducer . . . . . | 145.00                     | <b>123.25</b>   |
| RCU-500RC-1/2 | Remote Control Unit (1-2 pass)           | Recorder . . . . .   | 135.00                     | <b>114.75</b>   |
| VOX-500       | Voice Operated Relay                     | Recorder . . . . .   | 65.00**                    | <b>55.25</b>    |
| CON-500       | Console Cabinet                          | Recorder . . . . .   | 305.00                     | <b>259.25</b>   |
| 500080        | Recorder Carrying Case (1 and 2 Channel) | Recorder . . . . .   | 180.00                     | <b>153.00</b>   |
| CTR-500       | Counter                                  | Rec., Repr. . . . .  | 80.00                      | <b>68.00</b>    |

**International Options**

|  |           |              |
|--|-----------|--------------|
| 50 Hz Operation (per transport) . . . . .                | No Charge |              |
| 220-240 volt operation (step down transformer) . . . . . | 87.50     | <b>74.37</b> |

†One required per channel.  
\*\*Price includes factory installation, which is the suggested way of ordering as this accessory is a wired-in type.



Price Schedule

Effective August 12, 1976  
GSA 15% discount, any quantity

▶ Metrotech  
▶ Dictaphone  
400L Series Voice Loggers

| Special Items 136-10, 136-22   |  |  |                        |                         |                    |
|--|--|--|------------------------|-------------------------|--------------------|
| (Important: Specify desired speed and 50 or 60 Hz when ordering.)  |  |  |                        |                         |                    |
| Series   | Model No.  | Description  | Direction*             | Professional User Price | Government Price   |
| Single Logger Systems  |  |  |                        |                         |                    |
| <b>400L</b><br>Recorder/Reproducers<br>(Single Speed)<br>Special Item 136-10   | 414L   | 1 Channel  | Auto, 4 Pass . . . . . | \$ 2,199.00             | <b>\$ 1,869.15</b> |
|  | 422L   | 2 Channel  | Auto, 2 Pass . . . . . | 2,299.00                | <b>1,954.15</b>    |
|  | 441L   | 4 Channel  | One Pass . . . . .     | 2,399.00                | <b>2,039.15</b>    |
|  | Single logger systems are for rack or portable case mounting.  |  |                        |                         |                    |
| Fail-Safe Dual Logger System: The 400L-2 is a complete dual system logging recorder/reproducer including one 4400-BX time code reader/generator and special factory interconnect to provide unattended AUTOMATIC TRANSFER from one logger to the other in case of tape break, end-of-tape, or time recording malfunction. Specify 50 or 60 Hz. |  |  |                        |                         |                    |
| <b>400L-2</b><br>Special Item 136-10   | 414L-2   | 1 Channel  | Auto, 4 Pass . . . . . | 6,198.00                | <b>5,268.30</b>    |
|  | 422L-2   | 2 Channel  | Auto, 2 Pass . . . . . | 6,398.00                | <b>5,438.30</b>    |
|  | 441L-2   | 4 Channel  | One Pass . . . . .     | 6,598.00                | <b>5,608.30</b>    |
| *Manual transposition of reels doubles number of passes. See brochure for details.   |  |  |                        |                         |                    |
| Above available 5/16 or 15/32 ips speed — .25" tape width, 117 V, 50 or 60 Hz (specify).   |  |  |                        |                         |                    |
| <b>NOTE:</b> For 15/16 ips transport speed, modification, add . . . . .  |  |  |                        | 29.00                   | <b>24.65</b>       |
| All loggers include built-in monitor amplifier and speaker.  |  |  |                        |                         |                    |
| Time Code Generator/Reader   |  |  |                        |                         |                    |
| <b>4400</b><br>Special Item 136-22   | 4400 Generator/Reader, 117 V with rack mount brackets for 400 Series only                                      |  |                        |                         |                    |
|  | 4400L with Line Lock (60 Hz only) . . . . .  |  |                        | 1,525.00                | <b>1,296.25</b>    |
|  | 4400BX with crystal oscillator, battery and charger<br>Provides one-hour battery stand-by (50/60 Hz) . . . . . |  |                        | 1,745.00                | <b>1,483.25</b>    |
| Options (Factory Installed)  |  |  |                        |                         |                    |
| Special Item 136-22  | ALC  | —Automatic Level Control, per channel,<br>per electronics, add . . . . .                       |                        | 27.50**                 | <b>23.37**</b>     |
|  | VOX  | —Voice Operated Relay, handles up to 4 channels<br>per electronics . . . . .                   |                        | 110.00                  | <b>93.50</b>       |
|  | 201404-01  | —Erase feature for 441L series only, per transport . . . . .                                   |                        | 110.00                  | <b>93.50</b>       |
|  | 201399-01  | —Auto transfer circuits for coupling two loggers.<br>Without time code. . . . .                |                        | 71.00                   | <b>60.35</b>       |
|  | Z  | —220/240 V (unregulated autotransformer) per system . . . . .                                  |                        | 87.50                   | <b>74.37</b>       |
|  |  |  |                        |                         |                    |
| Accessories  |  |  |                        |                         |                    |
| Special Item 136-22  | 201353-02  | —Portable case (black) for single system plus time . . . . .                                   |                        | 325.00                  | <b>276.25</b>      |
|  | 201231   | —Timer clock for preset start/record<br>(Specify 50 or 60 Hz and if for single or dual system) |                        | 49.00                   | <b>41.65</b>       |
|  | 4505/404610  | —Deluxe cabinet with lockable plexiglass<br>front door . . . . .                               |                        | 673.00                  | <b>572.05</b>      |
| **Each   |  |  |                        |                         |                    |

Replacement Parts Price Schedule

▶ Scully/Metrotech  
and Dictaphone 400/4400 Series

Effective August 12, 1976

| Special Items No. | Replacement Parts Description   | U.S. Government Price  |
|-------------------|---|--|
| 136-23            | Repair Parts for Scully/Metrotech<br>Tape Recorder/Reproducers, Reproducers only,<br>and Voice Loggers. | 15% discount from<br>April 6, 1975, List<br><br>Complete Current Price List available on request |



## Ordering Information

**1. Maximum ordering limitation:** \$100,000 136-9, 10, \$25,000 136-26, 136-22, 136-23.

**2. Minimum order limitation** \$25.00 for single or combination items.

**3. All Scully/Metrotech products are of U.S. manufacture.**

**4. How to place order:**

- a. Select items described in this catalog.
- b. Government agency prepares purchase order which should include:
  - i. Model number
  - ii. Configuration (full, half-track or stereo, etc.)
  - iii. Tape speed
  - iv. Tape width
  - v. 50 or 60 cycle operation
  - vi. Price
  - vii. Shipping instructions
- c. Submit order directly to company office in Mountain View, California, or to nearest sales/service center. Government agency shall inspect equipment on receipt and in the event of shipping damage, shall advise Scully/Metrotech by collect wire giving P.O. #, equipment serial number, bill of lading, name of delivering carrier, extent of damage and a request for disposition instructions.

**5. Delivery:** Within 60 days ARO. F.O.B. destination in 48 contiguous U.S. states. Add 3% for delivery to Hawaii and Alaska. For "Delivery within Consignee's Premises," add \$7.17 minimum per shipment or \$.90 per 100 pounds — whichever is greater.

**6. Overseas orders** from U.S. installations should be directed to Export Department headquarters address below. Crates extra at crate vendor's cost plus 10% handling charge.

**7. Packing:** All packing to conform to best commercial practice. See crate cost note in 6 above.

**8. Installation instructions:** Installation and maintenance instructions for all Scully/Metrotech equipment included with shipment.

**9. Electric current:** Scully/Metrotech equipment operates on 105-125 VAC, 60 Hz, single phase power. 50 Hz operation provided on specification at an extra charge. Equipment has been submitted to U/L for approval. Does *not* meet requirements of MIL-1-7623 (Navy) and MIL-1-16910 (ship) for radio interference.

**10. Guarantee:** All necessary adjustments of machines procured hereunder, not occasioned by accident or misuse, will be made by the contractor at his own expense, including transportation costs, if any, during the 90-day period after delivery. All machines procured hereunder are guaranteed for a period of 1 year from date of delivery. All in-warranty broken or defective parts not caused by accident or misuse through fault or negligence by the government, will be replaced (including parts and labor) at the contractor's expense, including transportation costs, if any.

**11. Terms of payment:** 4% discount allowed for payment within 20 days from invoice date. Net 30 days.

**12. Technical information:** Submit specific questions to: Technical Director, headquarters address listed below.

**13. Servicing points:** Mechanical servicing and replacement parts for normal spare parts requirements for Scully/Metrotech Tape Recorders and Reproducers are available from Authorized Sales and Service Centers listed below. Write, wire or phone for immediate shipment of spares. Contact: Service Director, headquarters address below.

Headquarters and payment address:

### ▶ **Scully/Metrotech**

Recording divisions of Dictaphone Corporation  
475 Ellis Street, Mountain View, CA 94043  
(415) 968-8389 TLX 34-5524

From Washington, D.C. metro area phones call ENTERprise 1-8389  
for toll-free calls to factory in Mountain View, California.

## Authorized Sales and Service Centers

Headquarters: 475 Ellis Street  
Mountain View, CA 94043  
(415) 968-8389

285 County Road  
Tenafly, NJ 07670  
(201) 568-4414

548 S. Kingsley Drive  
Los Angeles, CA 90020  
(213) 380-7980

3434 W. Peterson Avenue  
Chicago, IL 60645  
(312) 583-7878

1005 8th Avenue South  
Nashville, TN 37203  
(615) 244-1546

Form GSA 7677-8-76  
Printed in USA



Effective October 1, 1976

All prices and specifications subject to change without notice.

PRICE SCHEDULE

Specify Model No., Speeds, Equalization, AC or Servo Drive and Line Frequency when ordering.

| Recorder/Reproducers (with Motion Direction Sensing)  |  |  |               | USER PRICE<br>A.C. DRIVE MOTOR<br>(see note A) | USER PRICE<br>SERVO DRIVE MOTOR<br>(see note B) |
|---|--|--|---------------|--|---|
| SERIES  | MODEL  | DESCRIPTION  | TAPE<br>WIDTH |  |   |
| <b>280B</b><br>10.5" Reels for<br>Rack Mounting   | 280B-FT  | Monophonic, full track                                     | .25"          | \$ 2,995.00                                    | \$ 3,395.00                                     |
|   | 280B-1   | Monophonic, half track                                     | .25"          | 2,995.00                                       | 3,395.00  |
|   | 280B-2   | Stereo 2 track, 2 channel                                  | .25"          | 3,795.00                                       | 4,195.00  |
|   | 280B-4   | Quad 4 track, 4 channel                                    | .50"          | 5,495.00                                       | 5,895.00  |
|   | 280B-24  | Stereo qtr. track, 2 channel                               | .25"          | 3,795.00                                       | 4,195.00  |
|   | 280B-44  | Quad 4 track, 4 channel                                    | .25"          | 5,495.00                                       | 5,895.00  |
| <b>280B</b><br>(SP-14)<br>14" Reels for<br>Rack Mounting  | 280B-1/SP-14   | Monophonic, half track                                     | .25"          | 3,195.00                                       |   |
|   | 280B-2/SP-14   | Stereo 2 track, 2 channel                                  | .25"          | 3,895.00                                       |   |
|   | 280B-24/SP-14  | Stereo qtr. track, 2 channel                               | .25"          | 3,895.00                                       |   |
|   | Above available 3.75—7.5 or 7.5—15 ips (Specify when ordering) |  |               |  |   |
| <b>284B</b><br>14" Reels for<br>Rack Mounting   | 284B-FT  | Monophonic, full track                                     | .25"          | .....  | 4,195.00  |
|   | 284B-1   | Monophonic, half track                                     | .25"          | .....  | 4,195.00  |
|   | 284B-2   | Stereo 2 track, 2 channel                                  | .25"          | .....  | 4,995.00  |
|   | 284B-4   | Quad 4 track, 4 channel                                    | .50"          | .....  | 6,695.00  |
|   | 284B-24  | Stereo qtr. track, 2 channel                               | .25"          | .....  | 4,995.00  |
|   | 284B-44  | Quad 4 track, 4 channel                                    | .25"          | .....  | 6,695.00  |
| <b>284B-8</b><br>Console Mounted<br>14" Reels   | 284B-8   | 8 track, 8 channel<br>Complete with D.C. servo and console | 1.00"         | .....  | 9,975.00  |
| VARIABLE SPEED ACCESSORY with L.E.D. display — see brochure.  |  |  |               |  |   |
| For console mount part no. 201664-01  |  |  |               | .....  | 795.00  |
| For remote mounting part no. 201664-02  |  |  |               | .....  | 795.00  |
| D.C. SERVO CAPSTAN MOTOR KITS — consisting of motor, electronics, crystal, all necessary hardware and instructions. |  |  |               |  |   |
| Kit No. 201466-01 for .25" tape width transports, console mounted   |  |  |               | .....  | 995.00  |
| Kit No. 201446-02 for .50" tape width transports, console mounted   |  |  |               | .....  | 995.00  |
| Kit No. 201466-03 for .25" tape width transports, for rack mounting   |  |  |               | .....  | 995.00  |
| Kit No. 201466-04 for .50" tape width transports, for rack mounting   |  |  |               | .....  | 995.00  |
| <b>Reproducers</b>  |  |  |               |  |   |
| <b>270</b><br>14" Reels for<br>Rack Mounting  | 270  | Monophonic, full track                                     | .25"          | 2,495.00                                       |   |
|   | 270-1  | Monophonic, half track,<br>bi-directional                  | .25"          | 2,595.00                                       |   |
|   | 270-2  | Stereo 2 track, 2 channel                                  | .25"          | 2,795.00                                       |   |
|   | 270-44   | Stereo qtr. track, 2 channel<br>bi-directional             | .25"          | 3,095.00                                       |   |
| <b>285B</b><br>10.5" Reels for<br>Rack Mounting   | 285B-FT  | Mono full track  | .25"          | 2,395.00                                       |   |
|   | 285B-2   | Stereo 2 track, 2 channel                                  | .25"          | 2,775.00                                       |   |
|   | 285B-24  | Stereo qtr. track, 2 channel                               | .25"          | 2,775.00                                       |   |

NOTE A: Price includes A.C. hysteresis capstan motor 3.75 - 7.5 or 7.5 - 15 ips 50 or 60 Hertz 117V (3.75 ips not available in .50" A.C. models)

NOTE B: Price includes D.C. servo capstan motor 3.75 - 7.5 or 7.5 - 15, or 15 - 30 in/sec. 50/60 Hertz 117V

(CONTINUED ON OVERLEAF)

Effective October 1, 1976

PRICE SCHEDULE

All prices and specifications subject to change without notice.

|                           |   |       |
|---------------------------|---|-------|
| INTERNATIONAL<br>OPTIONS: | -- 50 Hz operation . . . . . specify when required.                   |       |
|                           | -- Any of above Recorders or Reproducers,                             |       |
|                           | modified for 220/240 V with unregulated autotransformer, Add. . . . . | 87.50 |

CONSOLE MOUNTS

|        |   |                     |           |
|--------|---|---------------------|-----------|
| 285B   | Mono or Stereo . . . . .                        | 201931-01 . . . . . | \$ 320.00 |
| 280B   | Mono or Stereo (280B-FT, -1, -2, -24) . . . . . | 200600-03 . . . . . | 350.00    |
| 280B-4 | Quad 4 channel (280B-4, 280B-44) . . . . .      | 200600-04 . . . . . | 415.00    |
| 284B   | Mono or Stereo for 14" Reel Recorders . . . . . | 201665-01 . . . . . | 515.00    |
| 284B   | Four Channel 14" Reel Recorders . . . . .       | 201665-02 . . . . . | 535.00    |

(Refer to local sales offices for prices on consoles for discontinued models)

REMOTE CONTROLS

|             |   |                                  |        |
|-------------|---|----------------------------------|--------|
| 280B Series | -- Standard Remote Control in Box . . . . .           | 200925-01 . . . . .              | 190.00 |
|             | -- Standard Remote Control -- Rack Mount . . . . .    | 200925-02 . . . . .              | 165.00 |
| 280B/284B   | -- Deluxe Remote w/lit Buttons, in box . . . . .      | 200925-03 (See note C) . . . . . | 190.00 |
|             | -- Deluxe Remote w/lit buttons, Panel Mount . . . . . | 200925-04 (See note C) . . . . . | 165.00 |

EQUALIZERS (for Field Conversion, Plug-in type, one per channel)

|                         |  |                     |       |
|-------------------------|--|---------------------|-------|
| 280B and<br>284B Series | -- NAB 3.75 -- 7.5 ips Rec/Rep . . . . . | 200605-01 . . . . . | 38.00 |
|                         | -- NAB 7.5 -- 15 ips Rec/Rep . . . . .   | 200605-02 . . . . . | 38.00 |
|                         | -- IEC 7.5 -- 15 ips Rec/Rep . . . . .   | 200605-03 . . . . . | 38.00 |
|                         | -- NAB 15 AES 30 ips Rec/Rep . . . . .   | 200605-04 . . . . . | 38.00 |
|                         | -- IEC 15 AES 30 ips Rec/Rep . . . . .   | 200605-05 . . . . . | 38.00 |

MAINTENANCE MANUALS (One supplied with each Recorder/Reproducer)

|                  |  |                        |       |
|------------------|--|------------------------|-------|
| 280B/284B/285B   | -- Recorder/Reproducer 1-4 Channel . . . . . | 200612-01 . . . . .    | 18.50 |
| 284B-8           | -- Recorder/Reproducer 8 Channel . . . . .   | 201666-01 . . . . .    | 18.50 |
| 280 & 275 Series | -- 1 to 4 Channel . . . . .                  | 00502000 . . . . .     | 18.50 |
| 270 Series       | -- Reproducer . . . . .                      | 000501000-01 . . . . . | 18.50 |

NOTE C: Remote Controls w/illuminated buttons are only for recorders with "L" or "S" prefix in serial number.

|                             |  |                           |                        |                           |
|-----------------------------|--|---------------------------|------------------------|---------------------------|
| Home Office                 |  | Regional Offices          |                        |                           |
|                             |  | NORTHEAST                 | SOUTHEAST              | MIDWEST                   |
| 475 Ellis Street            |  | 285 County Road           | 1005 8th Ave. South    | 3434 W. Peterson Ave.     |
| Mountain View, Calif. 94043 |  | Tenafly, New Jersey 07670 | Nashville, Tenn. 37203 | Chicago, Illinois 60645   |
| (415) 968-8389              |  | (201) 568-4414            | (615) 244-1546         | (312) 583-7878            |
| Telex 345524                |  | In Manhattan 354-0623     |                        |                           |
|                             |  |                           |                        | WEST                      |
|                             |  |                           |                        | 548 Kingsley Drive        |
|                             |  |                           |                        | Los Angeles, Calif. 90020 |
|                             |  |                           |                        | (213) 380-7980            |